iii. Reviewer Comments.

1. Overall, the efficacy shown in these two supportive studies, confirm the findings of the large, multi center USA trial. In that large multi center trial, the results showed comparability in primary efficacy between balsalazide and an approved mesalamine formulation. The results reported by the sponsor in these two supportive studies revealed comparable efficacy between oral balsalazide 6.75 g/d and an oral sulfasalazine formulation, similarly approved for treatment of acute ulcerative colitis. Administration of balsalazide and sulfasalazine in therapeutic doses, during an acute ulcerative colitis episode of mild, moderate to severe intensity, resulted in improvement of relevant ulcerative colitis patient symptomatology, i.e., stool blood, bowel frequency, and in improvement in endoscopically assessed features of mucosal inflammation. This statement specially applies to the supportive study 0028/011, in which the lack of corticosteroid use eliminated an important confounding therapeutic variable.

It should be noted the rather relevant and detailed information on ulcerative colitis symptoms, such as stool blood, provided in the report of these two trials, which made it easer to this reviewer to assess the reported efficacy results.

2. This reviewer does not concur that the efficacy data presented in these small supportive trials allows the sponsor to claim "remission" induced by balsalazide administration. My reasons for disagreement are basically the same as those included in my comments on the second pivotal trial 57-3001. They relate to definition of remission, complete resolution of symptoms, endoscopic and histologic inflammation, and, particularly, to the described concomitant use in trial 0028/017 of a corticosteroid, an approved antiinflammatory medication known to induce remission in a large proportion of acute ulcerative colitis episodes.

3. Placebo-Controlled Trial.

i. Protocol. The protocol design for this multi center trial, conducted in the USA, was essentially the same as the study protocol presented in Pivotal Trial CP099301. Hence, I will only include in this section the protocol's SYNOPSIS and schematic Study Design:

SYNOPSIS

This is a randomized, placebo controlled, double-blind, dose response comparison trial of ColazideTM (balsalazide sodium), 4.5 g/day or 6.75 g/day, in patients with active mild or moderate ulcerative colitis. Primary endpoints include the improvement of symptoms as documented by individual symptom scores, Physician's Global Assessment, overall symptom a ssessment and flexible sigmoidoscopy. The cumulative proportion of patients achieving remission will also be assessed, supported by histologic findings. Safety will be assessed by laboratory findings, incidence of adverse events and volunteered complaints. A pharmacokinetic study will also be performed at up to three study sites. Two hundred and

thirty patients, at fifteen to twenty clinical sites, will participate in the four week trial, with two hundred and ten expected to complete the treatment phase.

Figure I. Overall Study Design

		(Clinic Visits ——	· 1
Scre	ening	Baseline	2 Week	4 Week
	†	96h	48h ▼ 48h	96h ▼
	-7 to 0 day	s Å		
	. :	Initial	Midpoint — Diary Assessments—	Final
Clinical History	x	•	,	•
Sigmoidoscopy	X		X	X
Biopsy	X	•	· [X]	[X]
Stool Culture	X			
Symptoms	X	X	X	X
Laboratory	X		X	x
Adverse Events	X	X	X	x

ii. Descriptive.

The following are summaries of the ITT Placebo, Colazide 4.5 g/d and 6.75 g/d population, the disposition of patients, and, the demographics of enrolled patients.

*Number of Subjects: Intent-to-Treat

Treated: 180

Colazide 6.75 g/d: 72 (F=26, M=46; mean age 40.6 years; range 20-73) Colazide 4.5 g/d: 73 (F=38, M=35; mean age 36.7 years; range 18-75)

Placebo: 35 (F=16, M=19; mean age 39.8 years; range 22-70)

At entry: No significant demographic differences. 14.4% UC newly diagnosed. Symptoms in Colazide 6.75 g/d group; mean 62.6 months history vs. 66.6 months, Colazide 4.5 g/d and 79.6 months, Placebo (NS). Duration of current relapse similar; mean 4.7 weeks for Colazide 6.75 g/d, 4.8 weeks for Colazide 4.5 g/d, and 5.1 weeks for Placebo (NS). Smokers in Placebo group slightly more frequent (11.4% vs. 6.9% for Colazide 6.75 g/d, and 2.7% for Colazide 4.5 g/d, NS). Characteristics of UC similar between groups: Disease extent: <60 cm, 68.0% Colazide 6.75 g/d, 69.9% Colazide 4.5 g/d, 71.5% Placebo (NS); Sigmoidoscopy: grade 1, 2.8% Colazide 6.75 g/d, 1.4% Colazide 4.5 g/d, 5.7% Placebo; grade 2, 72.2% Colazide 6.75 g/d, 76.7% Colazide 4.5 g/d, 71.4% Placebo; grade 3, 25% Colazide 6.75 g/d, 21.9% Colazide 4.5 g/d, 22.9% Placebo (NS).

Table 1. Number of Patients Evaluated at Each-Study Week 1

	Colazide	•	Colezide		
Overall Study Period	6.75 g/day Placebo		4.5 g/day	Total	
Screened:	72	35	73	211*	
Randomized/Enrolled:	72	35	73	180	
Not treated	1	0	0	1	
Treated	71	35	73	179	
Wock 2:	68	34	72	174	
Weck 4:	57	31	57	145	

^{*}Contains 31 patients not categorized into a treatment group. These were due to sigmoidoscopic findings of 'mild' or to abnormal laboratory evaluations which excluded eligibility.

The following table summarizes the primary and relevant secondary efficacy results.

24-Hour Diary Data	Pat	ients Improved (%)		Between-Gn	oup P-Valu	
Symptom/Sign	Colazide 6.75 g/d Placebo 4.5 g/d			6.75 vs. Placebo	4.5 vs. Placebo	
Rectal Blooding:	23/63 (36.5%)	12/30 (40.0%)	19/61 (31.1%)	CMH 0.718	CMH 0.456	
Stool Frequency:	19/63 (30.2%)	9/30 (30.0%)	31/63 (49.2%)	0.952	0.074	
Patient Punctional Assessment:	25/63 (39.7%)	13/29 (44.8%)	33/61 (54.1%)	0.663	0.401	
Abdominal Pain:	18/63 (28.6%)	14/28 (50.0%)	30/61 (49.2%)	0.061	0.941	
Sigmoidoscopy:	31/66 (47.0%)	15/33 (45.5%)	27/66 (40.9%)	0.907	0.658	
Physician's Global			•			
Assessment	26/69 (37.7%)	16/33 (48.5%)	32/69 (46.4%)	0.303	0.811	
Overall Assessment:	19/63 (30.2%)	12/31 (38.7%)	28/63 (44.4%)	0.424	0.597	

Based on the above results, Salix concluded the following:

"Colazide treatment did not result in a significant difference in symptom improvement relative to placebo. It is concluded that this outcome was due to a greater than predicted placebo response and to a modest treatment response, both of which may be related to the characteristics of the patient population available for enrollment in a placebo-controlled study"...

iii. Reviewer Comments.

This randomized, placebo-controlled study revealed that balsalazide treatment is ineffective if administered for a period shorther than 8 weeks, i.e., 4 week period. Hence, and based on the results of this large muticenter study, we may conclude that an appropriate length of therapy is a relevant factor for an effective balsalazide treatment of mild to moderately active ulcerative colitis.

F. SAFETY.

i. Descriptive.

The brief information included in this safety section on demographics of patient exposure, overall list of adverse reactions and deaths was obtained from the INTEGRATED SUMMARY OF SAFETY, Vol. 1.082.

1. Demographics. Salix states the following:

"A total of 1034 patients were treated one or more times with Colazide. Of these, 502 patients were exposed to Colazide in more than one trial. In addition, 100 patients were exposed to mesalamine, 53 to sulfasalazine, and 35 to placebo in the acute controlled trials. An additional 38 patients were exposed to sulfasalazine and 15 to placebo in the controlled maintenance trials, while 12 patients each received Colazide plus mesalamine or Colazide plus sulfasalazine (SASP) in the PK/Pharmacology studies. One non-UC patient received placebo.

For the controlled, acute studies, the majority of patients enrolled were adults aged 18-64 years, no pediatric patients, and 44 elderly. When all studies were considered, there were 13 pediatric patients and elderly (365 years) accounted for about 10% of the patients. For the controlled acute studies and overall, 56% of patients were male. The majority of patients were Caucasian where race was indicated and were likely to be Caucasian in the European studies where race was not indicated.

For the controlled, acute studies, 68% of the Colazide patients completed the studies and only 23 patients (7%) discontinued because of adverse events. In the controlled maintenance trials, 51% completed and 12% discontinued for adverse events. The largest reason for discontinuation of Colazide was lack of efficacy".

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Advance Event 25 & Statement Minutes 4 & Statement Minutes 25 & Statement 25 & Statement Minutes 25 & Statement Mi	16) 3d	B (%)	PK &	liarest Acus	('Dropt Areto & Plaint	Torret Malet	Total
Expand Assumed for Indity 32 Descriptioned Lank of Efficacy 49(Advance Event 23(Inditional Event 34(Chies 36(Completed Stack 2416		10M					
Aurent for Indicy 32 Descriptions Leak of Effency Advans Event Letter Event Letter Event Letter Event Letter Event Section 35 (Campleted Study 241 6		2154					
Daventioned Limb of Effenny 40 (1 Advance Event 23 & International Human Chaine 35 (Campleted Humb 241 6		- L1	133 [1]	30 (1)	35 [136]	173 (200)	2034 (448)
Link of Effenny 49 (1) Advance Event 23 (2) Internacion Humo Other 38 (2) Completed Husby 24 (4)	241	24	123	39	294	36	3034 (448)
_ 1	796) 40 196) 2	7 (3296) 1 (1294) 1 (494) 1 (5196)	1 (7%) 6 1 (2%) 11# (97%)	12 (3PU) 2 (3PU) 0 2 (3PU) 23(3PU)	87 (20%) 2 (40%) 3 (30%) 44 (23%) 76 (20%)	12 (396) 30 (196) 2 (196) 137 (196) 97 (29%)	274 (1894) 825 (896) 9 (196) 362 (1894) 347 (8094)
Tresiments*	11						
		33	-8		<u> </u>		*
Decommend			- 73			•	24_
		(1914)	•	•		•	MEIM
	194)	(946)	- : I	•		-	32 ((34)
		K 496)	1(490)		1 : 1		3(1%)-
		(CPA)	A CHANGE		Hi		27 (1994) 17D (8494)

a: For 68 patients, study completion was not applicable (named experience)

b: Other treatment includes mesalstrine, sulfensizzine, and placebo

2. Adverse Events. The following Table 7 lists the overall incidence of adverse events (ADE) in acute studies of Colazide. The most common ADEs were headache, abdominal pain, and fatigue.

Table 7: Incidence of Common Adverse Events in Acute Studies of Colonide (in Partieuts Aged 18-64 Years)

Adverse Event	Caleride	Monteclas	Settienterier	Placebo	
	N 369	N-10	X - 47	N - 33	
Body as a Whole					
Acchemia	4 (116)	1 (196)	2(4%)	•	
Back Pain	10 (3%)	4 (4%)	5 (1196)	•	
Fatigue	47 (18%)	15 (17%)	7 (1996)	4 (19%)	
Fever	8 (2%)	9 (3%)	1(216)		
Flo-like Disorder	11 (3%)	3 (3%)	1(2%)	1 (3%)	
3-Antoine	4 (1%)	•	1(2%)	•	
Pain	15 (416)	3 (396)	2 (454)	1 (396)	
Gothela testioni					
Abdominal Pais	77 (2)%)	20 (22%)	15 (32%)	4 (13%)	
Colinia Ulumative Aggrav.	7 (256)	3 (3%)		•	
Constiguition	6 (2%)	3 (196)	1 (2%)	•	
Dissolves	48 (1996)	14 (16%)	2(40)	2(4%)	
Dyspepsia	40 (1196)	8 (954)	14 (30%)	3 (9%)	
Plandence	49 (1394)	14 (1696)	4 (496)	7 (22%)	
Manorings Rooms	4 { 3%}	3(3%)		3 (9%)	
Meleus	9 (2%)	1 (196)		•	
Mouth Dry	6 (234)		1(270)		
Names	47 (13%)	10 (1196)	26 (4316)	\$ (16%)	
Stock Frequent	5 (196)	•		2 (5%)	
Тепендоче	8 (256)	5(4%)	1 0 1	1 (3%)	
Vomiting	36 (496)	4 (4%)	(21376)	2 (614)	
Managlashrivtal					
Arthrulgia	8 (2%)	2 (2%)	1 • !	•	
Стопци	11 (2%)	1(1%)	1 (2%)	•	
Mysless	54 196)	•		1 (3%)	
Nervette System					
Ascrutio	E (294)		2(4%)		
Depression	4 (196)	2 (2%)	2(4%)	•	
Dezines	19 (5%)	3 (3%)	\$(176)	2 (4%)	
Houdeste	87 OH9	28 (3176)	28 (4010)	18 (3) 70	
Innomnia	\$ (196)	2 (254)	2 (4%)	•	
Respiratory					
Pharyogitis	5 (196)	4 (4%)	2 (4%)	•	
Registery befortim	17 (59)	7(8%)	3(4%)	\$ (16%)	
Schingip	\$(-196)	5 (4%)	a	•	
Shin and Approphers					
Prunitus	4 (196)		1 (2%)	1 (3%)	
Paris	10 (3%)	3 (2%)	4(99)	•	
Öber	I				
Eac Infection NOS	4(1%)	•	•		
Influction Vint	\$ (116)	2 (2%)	4 (\$16)	ě	
Taste Perversion	4 (196)		1 (296)	3 (3%)	

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Table 12 compares the incidence of ADEs by gender in acute clinical studies of Colazide. As observed, there were some differences, with a higher incidence of ADEs reported in women.

Table 12:	Mant Common Adverse	Events by	Gender in Acuts	Cinical
	Condian a	of Calenda		

within of Children							
Adverse Event	Propoles	Moles					
	. N = 168	N=325					
	N (%)	N(%)					
Headache	46 (274)	69 (2214)					
Abdeminal Pala	43 (2?%)	38 (27%)					
Filtiple	34 (30%)	38 (17%)					
Flobelinece	36 (85%)	28 (23%)					
Distribus	25 (1994)	26 (12%)					
News	34 (304)	15(196)					
Dyvice	36 (10%)	27 (12%)					
Direitori	11 (7%)	12 (9%)					
Requirement infection	7 (4%)	(1 (5%)					
Pain	11 (7%)	\$ (3%)					
Verbide	7(4%)	9 (4%)					
Back Pain	11 (7%)	\$ (3%)					
Resh	8 (5%)	4(2%)					
Cracks	3 (3%)	8 (4%)					
Fis-like Discoder	7 (4%)	4(2%)					
Constitution	4 (2%)	2(1%)					
heliction Vint	1(1%)	4 (2%)					

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Serious Adverse Events. The next Table 13, depicts serious ADEs in controlled acute Colazide studies.

Table 13: Serious Adverse Events

Study	Treatment	Patient	Adverse Event
Controlled A	Larte Studies		
CP069101	Colazide 6.75	1209	Pericarditis
	Colazide 6.75	1314	Worsening of UC
	Colazide 6.75	1811	Worsening of UC
CP099301	Colezide 6.75	5251	Nausca and worsening of UC
	Colazide 2.25	5207	Womaning of UC
	Colazide 2.25	5557	Worsening of UC
	Colazide 2.25	5102	Colonic polype with dysplasia
	Mosslemine	5456	Worsening of UC
	Messlamine	5558	Worsening of UC
57-3001	Mesalamine	1145	Severe abdominal pain, possible Crohn's disease
	Mesalemine	1482	Worsening of UC
	Mesalamine	1543	Joint pain, muscle ache, lethargy
	Mesalamine	1461	Very severe worsening of UC
0028-011	Colazide 6.75	1153	Allergic reaction
	Sulfasalazine	1114	Acuse pencreatitis
	Sulfasalazine	1110	Carcinoma of bronchus in smoker
0028-017	Colazide 6.75	1766	Deep vein thrombosis
	Colazide 6.75	1764	Renal colic

4. Deaths. There was only 1 death on Colazide. Patient 2388, Study 57-3001Ext, died of a cardiac arrest,

4 week placebo-controlled trial, and in the lack of 4 week efficacy of the 6.75 g dose over the low 2.25 g dose, shown in the large USA multi center trial.

- 5. In the Clinical Studies section, information of the first USA multi center trial should include results of the ITT-2, all-treated patients. It should state that the 6.75 g/d dose was significantly superior to the low 2.25 g/d dose in improving stool blood, stool frequency and sigmoidoscopic score, but <u>not</u> in Physician Global Assessment.
- 6. The Clinical Studies section, the reference of Colazide efficacy on Asacol in the second pivotal study, should **omit** the use of "remission" from the sentence. It should just state that Colazide was more effective than Asacol in overall symptomatic improvement. This paragraph should also make reference to the fact that in this second study, topical hydrocortisone acetate 10% was used as rescue medication throughout the trial.
- 7. This Clinical Studies section would be greatly improved by the inclusion of the results reported in the Supportive Study 0028/011.
- 8. The ADVERSE REACTIONS section should make reference that there was gender difference in some ADRs, i.e., abdominal pain, fatigue and nausea, and that these ADRs were more frequently reported in women.

This recommendation for approval is based on my review of the reported clinical data. Final approval would require concomitant approval of the requested chemistry information, which is presently pending.

U 5-10-98

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Robert Prizont, M.D.

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APPENDIX 1 - Intention-To-Treat Analysis of All Treated Subjects

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Table 23: Intent to Treat 2 Patient Population, Improved Patient Functional Assessment (96 Hours)

PFA	Colazide	Colazide	Asacol	Between-Group P-value	Between-Group P-value
Change At	2.25 g/d	6.75 g/d	2.4 g/d	6.75 vs. 2.25	6.75 vs. Asacol
			,	# 100 - 100	
Interim 1 Assessment	N=50	N=50	N=49		
Improved	21 (42 %)	16 (32 %)	18 (36.7%)	0.336 CMH	0.581 CMH
Not Improved	29 (58 %)	34 (68 %)	31 (63.3%)		
Missing	0	3	2		•
Total	50	53	51		
Interim 2 Assessment	N=50	N=50	N=49	,	•
Improved	23 (46 %)	23 (46 %)	22 (44.9%)	0.954 CMH	0.936 CMH
Not Improved	27 (54 %)	27 (54 %)	27 (55.1%)	•	•
Missing	0	3	2		
Total	50	53	51		
Final Assessment	N=50	N=50	N=49		
Improved	25 (50 %)	31 (62 %)	24 (49 %)	0.229 CMH	0.212 CMH
Not Improved	25 (50 %)	19 (38 %)	25 (51 %)		
Missing	0	3 .	2		
Total	50	53	51		

CMH = Cochran-Mantel-Haenszel Test, controlling for entry PGA

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Table 24: Intent to Treat 2 Patient Population, Improved Abdominal Pain (96 Hours)

Abdominal Pain	Colazide	Colazide	Asacol	Between-Group P-value	Between-Group P-value
Change At	2.25 g/d	6.75 g/d	2.4 g/d	6.75 vs. 2.25	6.75 vs. Asacol
1; }	ı				
Interim 1 Assessment	N=50	N=50	N=49		
Improved	11 (22 %)	14 (28 %)	13 (26.5%)	0.552 CMH	0.934 CMH
Not Improved	39 (78 %)	36 (72 %)	36 (73.5%)		
Missing	0	3	2		
Total	50	53	51		•
Interim 2 Assessment	N=50	N=50	N=49		
Improved	12 (24 %)	18 (36 %)	19 (38.8%)	0.167 CMH	0.737 CMH
Not Improved	38 (76 %)	32 (64 %)	30 (61.2%)	•	
Missing	0	3	2		
Total	50	53	51		
Final Assessment	N=50	N=50	N=49		! ;
Improved	14 (28 %)	18 (36 %)	18 (36.7%)	0.416 CMH	0.896 CMH
Not Improved	36 (72 %)	32 (64 %)	31 (63.3%)		
Missing	0	3	2		
Total	50	53	51		

CMH = Cochran-Mantel-Haenszel Test, controlling for entry PGA

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Table 25: Intent to Treat 2 Patient Population, Improved Physician Global Assessment

PGA	Colazide	Colazide	Asacol	Between-Group P-value	Between-Group P-value
Change At	2.25 g/d	6.75 g/d	2.4 g/d	6.75 vs. 2.25	6.75 vs. Asaco
Interim 1 Assessment	N=49	N=52	N=49		
Improved	18 (36.7%)	22 (42.3%)	16 (32.7%)	0.42 CMH	0.238 CMH
Not Improved	31 (63.3%)	30 (57.7%)	33 (67.3%)	•	
Missing	1	1	2		
Total	50	53	51	· ·	•
Interim 2 Assessment	N=49	N=52	N=49		
Improved	27 (55.1%)	31 (59.6%)	25 (51 %)	0.541 CMH	0.321 CMH
Not Improved	22 (44.9%)	21 (40.4%)	24 (49 %)	,	
Missing	1	1	2		
·Total	50	53	51		
Pinal Assessment	N=49	N=52	N=49		
Improved	26 (53.1%)	35 (67.3%)	28 (57.1%)	0.13 CMH	0.276 CMH
Not Improved	23 (46.9%)	17 (32.7%)	21 (42.9%)	.*	(,
Missing	1	1	2		•
Total	50	53	51	•	•

CMH = Cochran-Mantel-Haenszel Test, controlling for entry PGA

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Table 26: Intent to Treat 2 Patient Population, Improved Overall Assessment

OSA	Colazide	Colazide	Asacol	Between-Group P-value	Between-Group P-value
Change At	2.25 g/d	6.75 g/d	2.4 g/d	6.75 vs. 2.25	6.75 vs. Asacol
Interim 1 Assessment	N=49	N=49	N=48		
Improved	10 (20.4%)	18 (36.7%)	12 (25 %)	0.039 CMH	0.151 CMH
Not Improved	39 (79.6%)	31 (63.3%)	36 (75 %)		•
Missing	1	4	3		
Total	50	53	51	•	
Interim 2 Assessment	N=49	N=49	N=48	•	
Improved	22 (44.9%)	26 (53.1%)	22 (45.8%)	0.339 CMH	0.426 CMH
Not Improved	27 (55.1%)	23 (46.9%)	26 (54.2%)		
Missing	1	4	3	•	
.Total	50	53	51		
			•		(:
Final Assessment	N=49	N=49	N=48		
Improved	22 (44.9%)	29 (59.2%)	26 (54.2%)	0.148 CMH	0.626 CMH
Not Improved	27 (55.1%)	20 (40.8%)	22 (45.8%)		,
Missing	1	4	3		
Total	50	53	51		

CMH = Cochran-Mantel-Haenszel Test, controlling for entry PGA

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APPENDIX 2 - Histology Results (Appendix F), Pivotal USA Study

APPENDIX F.2.3

BIOPSY SCORES

Investigat	or		Age at Screening			• •	Draw	Elapsed Time
Treatment	Patient	Sex	(years)	Race	В	liopsyScore	Date	(days)
BERRY								
2.25	5404	Female	49	Caucasian	Entry:	Severe	9/30/94	
					Exit:	Moderate	11/30/94	61
	5405	Female	39	Caucasian	Entry:	Severe	10/26/94	
			•		Exit:	Inactive	12/29/94	64
6.75	5402	Male	- 31	Caucasian	Entry:	Inactive	8/9/94	
•					Exit:	Severe	10/14/94	66
	5403	Male	38	Caucasian	Entry:	Moderate	8/31/94	
					Exit:	Inactive	10/27/94	57
ASACOL	5401	Female	28	Caucasian	Entry:	Moderate	2/17/95	
					Exit:	Inactive	4/21/95	63
	5406	Male	50	Caucasian	Entry:	Severe with erosion	8/31/94	
					Exit:	Inactive	11/2/94	63
	5410	Female	64	Caucasian	Entry:	Mild	11/12/94	
					Exit:	Inactive	1/9/95	58
KOGUT								
2.25	5651	Male	27	Caucasian	Entry:	Inactive	8/17/94	•
					Exit:	Inactive	10/13/94	57
•	5652	Male	49	Caucasian	Entry:	Severe	8/7/95	
				•	Exit:			
6.75	5654	Male	46	Caucasian	Entry:	Inactive	8/30/94	}
					Exit:	Inactive	10/25/94	56
ASACOL	5006	Male	48	Caucasian	Entry:		1/5/96	j
			•		Exit:		3/11/96	66
	5653	Male	67	Caucasian	Entry:	Severe	6/28/94	ŧ
					Exit:	Inactive	8/31/94	1 64
	5656	Male	47	Caucasian	Entry:	Moderate	7/28/9	4
					Exit:	•		
KOVAL	•							
2.25	5351	Femal	e 26	Caucasian	Entry:	Moderate	8/3/9	4
	- "				Exit:	Severe	10/4/9	4 6
	5356	6 Male	40	Caucasian	Entry	Severe _	3/14/9	5
					Exit:	Severe with erosion	5/16/9	5 6

APPENDIX F.2.3

CLINICAL STUDY REPORT PROTOCOL CP099301

RIO	PSY	SCO	RES

Investigate	or		Age at Screening				Draw	lapsed Time
Treatment			(years)	Race		iopsyScore	Date ((days)
2.25	5357	Male		Asian.	Entry:	144	11000	
						Inactive	11/3/95	
	5362	Maic		Caucasian	Entry:		10/26/95	
						Severe with crosion	10/3/95	
6.75	5106	Female	49	Caucasian	Entry: Exit:	Inactive	10(3/7)	
	5311	Male	42	Caucasian	_	Severe	11/7/95	
	••••	.,,,,,,,,			Exit:			
	5352	Male	38	Caucasian	Entry:	Severe	8/25/94	
				,	Exit:	Inactive	10/27/94	63
·	5353	Female	39	Caucasian	Entry:	Moderate	9/14/94	
	0400				Exit:	Mild	11/16/94	63
	5359	Male	38	Caucasian	Entry:	Severe	11/7/94	•
		0,000			Exit:			
	5360	Male	40	Caucasian	Entry:	Moderate	12/22/94	
	0200	2.2			Exit:	Severe -	2/24/95	64
	5658	Female	38	Caucasian	Entry:	Moderate	7/6/95	
•					Exit:	Severe	9/15/95	71
ASACOL	. 5308	8 Female	e 25	Caucasian	Entry:	Severe	11/15/95	
					Exit:		2/13/96	90
	5354	4 Male	23	Caucasian	Entry:	Inactive	1/18/95	
•					Exit:	Inactive	3/28/95	69
	535	5 Male		Caucasian	Entry:			
					Exit:	Severe with erosion		
	535	8 Male	42	Caucasian	Entry	Inactive	5/22/95	
		•			Exit:	inactive	6/8/95	17
	536	i Fema	le	Caucasian	Entry			
					Exit		10/24/95	
	565	59 Fema	de 37	Caucasian	Eatry	: Severe with erosion		
					Exit:	Severe	11/3/9	5 71
LEVIN	E							•
2.25	51:	51 Male	38	Caucasian	Entry	r: Mild -	11/28/9	4
-				•	Exit			

APPENDIX F.2.3

				BIOPSY	SCORE	is		-
Investigat		Sex	Age at Screening (years)	Race	1	BiopsyScore	Draw Date	Elapsed Time (days)
2.25	5153	Male	36	Caucasian	Entry:	Severe	2/13/95	
				•	Exit:	t		
	5158	Male	43	Caucasian	Entry:	Severe with erosion	6/2/95	
					Exit:	Severe with erosion	6/16/95	14
6.75	5154	Male	32	Caucasian	Entry:	Severe with erosion	3/27/95	
			-	*	Exit:	Moderate	5/22/95	56
	5156	Male	66	Caucasian	Entry:	Severe	4/14/95	
					Exit:	Moderate	6/9/95	56
	5157	Female	35	Caucasian	Entry:	Mild	5/22/95	
					Exit:	Severe	6/19/95	28
	5160	Female	39	Caucasian	Entry:	Moderate	6/2/95	
		•			Exit:	Inactive	6/23/95	21
	5312	Male	29	Caucasian	Entry:	Inactive	11/14/95	
					Exit:		1/16/96	63
	5462	Male	46	Caucasian	Entry:	Severe with erosion	9/8/95	
					Exit:	Mild	11/9/95	62
ASACOL	5152	Male	39	Black	Entry:	Moderate	11/21/94	
					Exit:	Inactive	1/17/95	. 57
	5155	Female	39	Caucasian	Entry:	Moderate	2/3/95	
				•	Exit:			
	5159	Male	35	Caucasian	Entry:	Severe	2/17/95	
					Exit:	Mild	4/14/95	56
MERRE	LL				•		•	
2.25	5305	Female	37	Caucasian	Entry:	Severe	1/10/95	;
					Exit:	Severe		
6.75	5302	Female	35	Caucasian	Entry:	Severe with erosion	7/28/94	1
					Exit:	Severe with erosion	9/27/94	61
	5303	Female	33	Caucasian	Entry:	Moderate	. 12/15/94	ľ
					Exit:	Severe	2/23/9	
ASACOL	. 5301	Male	45	Other	Entry:		6/30/94	•
•					Exit:		9/7/94	4 69
	5304	Male	21	Caucasian	Entry:	Severe	1/6/9	5
					Exit:	Severe with erosion		
PRUIT			·					

PRUIT

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3

57 Similarises.

CLINICAL STUDY REPORT PROTOCOL CP099301

APPENDIX F.2.3

Investigat	tor		Age at					Elapsed
Treatment	Patient		Screening (years)	Race	E	liopsyScore	Draw Date	Time (days)
2.25	5051	Female	40	Caucasian	Entry:	Severe :	7/25/94	
				•	Exit:	Severe with erosion	9/18/94	55
	5053	Female	50	Caucasian	Entry: Exit:	·	8/5/94	
	5058	Female	31	Caucasian	Entry:	Mild -	11/11/94	
	•	4 44			Exit:	Mild	1/11/95	61
	5060	Female	37	Caucasian	Entry:	Severe	4/4/95	-
					Exit:	Inactive	6/2/95	59
	5108	Male	23	Black	Entry:	Mild	5/10/95	
	•				Exit:	Moderate	7/14/95	65
	5111	Male	41	Caucasian	Entry:	Moderate	6/21/95	
					Exit:	Inactive	7/31/95	40
6.75	5012	Male	43	Caucasian	Entry:	Severe with erosion	9/25/95	
					Exit:	Moderate	10/3/95	8
	5052	Male	50	Caucasian	Entry:	Severe with erosion	6/24/94	
					Exit:	Inactive	8/30/94	6
	5054	Female	43	Caucasian	Entry:	Inactive	7/1/94	•
				,	Exit:	Inactive	8/12/94	4:
	5 057	Male	36	Caucasian	Entry:	Inactive	11/29/94	,
					Exit:	Inactive	1/27/95	5
	5059	Female	32	Caucasian	Entry:	Severe	2/28/95	5
					Exit:	Inactive	4/3/95	3
	5107	Male	60	Caucasian	Entry:	Severe with erosion	3/14/9:	5
					Exit:	Severe with crosion	5/16/9	5 6
ASACO	L 5055	Male	28	Caucasian	Entry:	Moderate	7/15/9	4
		•	•		Exit:			
	5056	5 Male	43	Caucasian	Entry:	1	8/23/9	4 .
					Exit:	Moderate	10/25/9	4 (
	506	l Female	49	Caucasian	Entry	: Severe	12/2/9	4
					Exit:	Inactive	2/8/9	5 (
	506	2 Female	55	Caucasian	Entry	: Severe	2/6/9	5
					Exit:	Inactive	4/5/9	5
	511	0 Female	22	Caucasian	Entry	: Severe	3/29/9)5
					Exit:	Severe	5/31/9)5

APPENDIX F.2.3

Investigation Treatment		Sex	Age at Screening (years)	Race	BiopsyScore		Draw Date	Elapsed Time (days)
ASACOL	5112	Female	38	Caucasian	Entry:	Severe	4/20/95	
			,	•	Exit:	Severe with erosion	6/1/95	42
REX								
2.25	5003	Female	33	Caucasian	Entry:	Inactive	12/6/94	
					Exit:	Inactive	2/28/95	84
	5005	Female	24	Caucasian	Entry:	Severe with erosion	1/25/95	-
					Exit:	Mild	3/15/95	49
6.75	5001	Male		Black	Entry:			
					Exit:	Severe with erosion	3/3/95	
	5002	Female	49	Caucasian	Entry:	Severe with erosion	- 7/12/95	
					Exit:	Severe with erosion	9/20/95	70
	5009	Female	23	Caucasian	Entry:	Mild	11/16/95	
					Exit:			
ASACOL	5004	Female	43	Caucasian	Entry:	Inactive	12/16/94	
			•		Exit:			
RIFF								
2.25	5011	Male		Caucasian	Entry:	-		
					Exit:	Severe with erosion	11/6/95	
	5307	Female	38	Asian	Entry:		1/15/96	
					Exit:	•	3/15/96	60
	5409	Male	74	Caucasian	Entry:		12/5/95	
				-	Exit:		2/2/96	- 59
•	5458	Male	50	Caucasian	Entry:		12/18/95	;
					Exit:		2/22/96	66
	5461	Male	60	Caucasian	Entry:	Severe with erosion	11/13/95	;
					Exit:		1/19/96	6
	5610	Male	55	Caucasian	Entry:	Severe	4/4/95	i
					Exit:		• •	
	5612	Female	21	Caucasian	Entry:	Severe	2/13/95	5
		•			Exit:			
	5662	Female	28	Caucasian	Entry:	Moderate	4/20/9	
					Exit:	<u>-</u>	7/6/9	
	5701	Male	54	Caucasian	Entry:	Inactive ·	10/27/9	
							10010	4 4

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Exit: Insctive

12/21/94 55

APPENDIX F.2.3

BIOPSY SCORES

Investigat	tor		Age at Screening			• -	Draw	Elapsed Time
Treatment	Patient		(years)	Race	В	iopsyScore	Date	(days)
2.25	5706	Male	59	Caucasian	Entry:	Moderate	11/30/94	· · · · · · · · · · · · · · · · · · ·
				•	Exit:	Inactive	12/19/94	19
	5707	Female	25	Caucasian	Entry:	Severe .	12/14/94	
					Exit:	Severe with erosion	<i>2/7/</i> 95	55
	5711	Female	36	Caucasian	Entry: Exit:	Severe with erosion	1/17/95	
6.75	5109	Male	26	Hispanic	Entry:	Severe	11/16/95	
				•	Exit:		1/25/96	70
	5262	Male	74	Other	Entry:	Severe	9/20/95	
					Exit:		11/27/95	68
	5603	Female	42	Caucasian	Entry:	Severe with erosion	3/27/95	
					Exit:	Severe	5/22/95	56
	5606	Male	26	Caucasian	Entry: Exit:		1/9/96	
	5608	Female	58	Caucasian	Entry:	Moderate	3/9/95	
					Exit:	Inactive	5/4/95	56
	5611	Female	20	Hispanic	Entry: Exit:	Moderate	2/8/95	
	5704	Male	33	Hispanic .	Entry: Exit:	Severe	11/3/94	
	5705	Female	49	Caucasian	Entry:	Severe with erosion	11/30/94	ļ
					Exit:	Severe with erosion	1/25/95	. 56
	5708	Female	51	Hispanic	Entry: Exit:	Mild	2/1/95	5
	5710	Female		Caucasian	Entry:			
				•	Exit:	Inactive	1/23/9	5
ASACO	L 500	7 Male	70	Caucasian	Entry:	Severe with erosion	10/18/9	5
					Exit:		12/21/9	
	520	6 Female	28	Caucasian	Entry	: Moderate	9/25/9	
					Exit:		11/27/9	
	541	2 Male	77	Caucasian	Entry	: Mild	2/27/9	
					Exit:	Inactive	4/24/9	
	560	4 Female	38	Caucasian	Entry Exit:		1/10/9	96

BIOPSY SCORES

Investigat Treatment			Age at Screening (years)	Race	Bi	орsyScore	Draw Date	Elapsed Time (days)
ASACOL		Female	47	Caucasian		Severe	2/14/95	
·	300,		•		•	Severe	4/13/95	58
	5702	Female	67	Caucasian		Moderate	8/15/94	
	5703	Male	31	Caucasian	Eatry: Exit:	Severe with erosion	10/6/94	
	5709	Female	31	Hispanic	Entry:	Mild	10/11/94	
				-	Exit:	Inactive	12/13/94	63
	5712	Female	75	Caucasian	Entry:	Severe	10/26/94	
•					Exit:	Severe	12/27/94	62
RUBIN							•	
2.25	5601	Female	38	Caucasian	Entry:	Severe	7/6/94	
					Exit:		8/31/94	56
	5605	Male	58	Caucasian	Entry:	Severe	7/8/94	
					Exit:	Severe	7/18/94	10
SALESE	ERG					•		
2.25	5102	Male	58	Caucasian	Entry:	Moderate	5/31/95	
			•		Exit:	Severe	7/24/95	
	5501	Male	50	Caucasian	Entry:	Severe	7/20/94	
					Exit:	Inactive	9/14/94	
	550	6 Male	6 6	Caucasian	Entry:	Severe	11/4/94	•
					Exit:	•	12/28/9	
	550	7 Femal	e 49	Caucasian	Entry:	Moderate	1/11/9	
					Exit:	Severe with erosion	3/8/9	
	551	0 Femal	e 76	Caucasian	Entry:	Severe with erosion	6/14/9	
					Exit:	Severe with erosion	8/11/9 2/9/9	•
6.75	510	4 Male	72	Caucasian	Entry:		4/5/9	
					Exit:	Severe with erosion	•	•
	540	8 Fema	le 32	Caucasian	Entry:		1/16/9	-
		na 151		Chanada	Exit:	inactive	10/28/	94
	550	3 Male	28	Caucasian	Exit:		12/23/	_
•	20	NA P	1. 40	Canasian		: Severe with crosion		
	334	04 Fema	10 40	Caucasian	Exit:		•	

Salix Pharmscenticuls, Inc.

Investigat			Age at Screening (years)	Race	R	iopsyScore	Draw Date	Elapsed Time (days)
Treatment			35	Caucasian		Moderate : _ = :	1/11/95	
6.75	2208	Female	33	CEGCESIALI		Inactive	3/13/95	61
	5511	Mala	45	Caucasian		Severe	5/19/95	
	2211	MINIC	43	CGOODIA		Severe	6/7/95	19
ASACOL	5101	Female	31	Caucasian	Entry:	Severe -	5/26/95	
MACOL	3101	1 000			Exit:	Inactive	7/13/95	48
	5103	Male	25	Caucasian	Entry:	Moderate	8/8/95	
	5.05				Exit:	Severe	10/5/95	58
	5502	Female	37	Caucasian	Entry:	Severe with erosion	7/13/94	
					Exit:	Mild	9/13/94	62
	5505	Female	36	Caucasian	Entry:	Moderate	9/27/94	
				•	Exit:			
	5509	Female	39	Caucasian	Entry:	Severe	11/17/94	
					Exit:	Moderate	1/5/95	
	5512	Female	31	Caucasian	Entry:	Severe with erosion		
					Exit:	Moderate	2/15/9	, 10
SALZB						Severe with erosion	6/17/9	Δ
2.25	525	5 Female	20	Caucasian	Entry:	Severe with crosion	1 41117	-
					Exit:	: Mild	7/26/9	4
	525	6 Male	29	Caucasian	Entry:	Mild	,,,,,,	
				Caucasian		: Moderate	7/6/9)5
6.75	525	1 Female	e 27	Caucasian	Exit:			
		·a sel.	32	Caucasian	_		2/17/	95
ASACO	L 523	2 Male	32	Caucasian	Exit:			
•	50	53 Fema	le 38	Caucasian			7/6/	95
	34)) temm		00000	Exit			
TORR	rc				•	•	•	
2.25		52 Fems	de 3	0 Hispanic	Entr	y:	11/3	
4.4.	-				Exit	-		/95
6.75	54	51 Fems	de 4	7 Hispanic	Entr	y: Moderate	7/21	
4		. <u> </u>		•	Exi	ti 🔭	9/19	
	54	IS4 Fem	de 6	8 Hispanic	Entr	-	11/2	
					Exi	t: Moderate	1/3	1/95



APPENDIX F.2.3

n	1/	2004	SCORES	
ĸ		PSY	NITIME	
-				

Investigat		. ,	Age at Screening	_			Draw	Elapsed Time
Treatment	Patient	Sex	(years)	Race	1	BiopsyScore	Date	(days)
ASACOL	5455	Male	23	Hispanic	Entry:	Moderate :	7/14/94	
					Exit:	Inactive	9/19/94	67
	5456	Male	73	Hispanic	Entry:	Mild. —	8/2/94	
					Exit:	Severe with erosion	8/15/94	13
	5457	Female	· 51	Hispanic	Entry: Exit:	Severe with erosion	2/14/95	
	5459	Female	29	Hispanic	Entry:	Moderate	3/6/95	
					Exit:	Severe	5/2/95	57 ⁻
WRUBLI	E .					·	_	
2.25	5202	Female	32	Black	Entry:	Inactive	12/21/94	
					Exit:	Inactive	2/15/95	56
	5205	Female	28	Caucasian	Entry:	Severe with erosion	1/9/95	
					Exit:	Severe with erosion	2/6/95	28
	5207	Male	32	Caucasian	Entry:	Severe with erosion	6/19/95	
					Exit:	Severe	7/10/95	21
	5551	Female	23	Caucasian	Entry:	Mild -	6/27/94	
		•		•	Exit:	Mild	7/11/94	14
	5555	Male	51	Caucasian	Entry:	Moderate	7/1/94	
			,		Exit:	Severe	7/29/94	28
	5557	Female	77	Caucasian	Entry:	Moderate	9/8/94	;
				•	Exit:	Insctive	9,22/94	. 14
	5562	Male	37	Caucasian	Entry:	Mild	10/3/94	ļ
					Exit:	Inactive	11/30/94	58
6.75	5203	Female	52	Black	Estry:	Moderate	5/1/95	5
					Exit:	Inactive	6/30/95	60
	5204	Male	48	Caucasian -	Entry:	Moderate	5/12/95	;
					Exit:	Inactive	7/7/95	5 50
	5210	Female	47	Caucasian	Entry:	Mild	7/5/95	5
					Exit:		8/30/9	5 5
	5552	Male	31	Caucasian	Entry:	Severe	6/21/94	4
					Exit:	Inactive	8/16/94	4 5
	5554	Female	52	Caucasian	Entry:	Mild	9/8/9	4
		,			Exit:	Inactive	11/4/9	4 5

APPENDIX F.2.3

5/23/95

56

BIOPSY SCORES Investigator Elapsed Age at Screening Time Draw Treatment Patient Sex (years) **BiopsyScore** Date (days) 6.75 5559 Male 9/19/94 Caucasian Entry: Severe Exit: Inactive 11/14/94 56 3/13/95 5560 Female Entry: Moderate 53 Caucasian Exit: **ASACOL** 12/14/94 5201 Male Black Entry: Moderate Exit: Moderate 1/5/95 22 - -Entry: Severe 7/1/94 5553 Male Caucasian Exit: Mild 8/29/94 59 Entry: Mild 9/14/94 5556 Female 32 Black Exit: Moderate 10/17/94 33 3/14/95 5558 Male Caucasian Entry: Exit: 3/28/95 5561 Female 63 Caucasian Entry: Inactive

Exit:

Inactive

APPEARS THIS WAY ON ORIGINAL

NDA 20,610 Page 60

APPENDIX 3 - Individual Symptomatology, Pivotal English-Irish Study

APPEARS THIS WAY ON ORIGINAL



	-	Balsalazide	Mesalazine	P-value
Number of times need	ded to go to	·		
lavatory to pass a stoo				
Times/night	Mean ± SD	0.18 ± 0.33	0.42 ± 0.59	p=0.0558
	N	37	37	•
	Min - Max			
Times/day	Mean ± SD	2.71 ± 1.98	2.45 ± 1.49	p=0.7907
• •	N	38	38	-
	Min - Max			
Blood on stools:		1		
Nights/week	$Mean \pm SD$	0.09 ± 0.38	1.18 ± 2.25	p=0.0065
-	N	34	32	•
	Min - Max		,	
Days/week	Mean ± SD	1.00 ± 2.03	2.36 ± 2.59	p=0.0053
	N.	38	36	1
	Min - Max			
Blood on toilet paper				
Nights/week	Mean ± SD	0.21 ± 0.69	1.41 ± 2.44	p=0.0110
	Ň	34	33	
	Min - Max			
Days/week	$Mean \pm SD$	1.47 ± 2.37	3.00 ± 2.89	p=0.0136
	N	38	37	1
	Min - Max			
Passed mucus with	· · ·			
Nights/week	$Mean \pm SD$	0.15 ± 0.44	1.24 ± 2.29	p=0.0326
	N	34	33	
	Min - Max			
Days/week	Mean ± SD	1.65 ± 2.22	3.00 ± 2.94	p=0.0469
- "	N	38	37	
	Min - Max			
Abdominal pain:				
Nights/week	$Mean \pm SD$	0.15 ± 0.56	0.70 ± 1.67	p=0.1343
•	N	34	33	
	Min - Max		•	
Days/week	Mean \pm SD	1.77 ± 2.33	2.30 ± 2.80	p=0.5867
	N	38	37	
	Min - Max			

The March 2, 2000 Medical Officer Review covers the Safety Update submitted September 23, 1999 in response to the Agency's June 15, 1998 AE letter.

Another Safety Update will be requested in the action letter.

Alice Kacuba

Regulatory Health Project Manager

APPEARS THIS WAY ON ORIGINAL

A Safety Update will be requested in the first action letter.

Melodi McNeil

Regulatory Health Project Manager

APPEARS THIS WAY ON ORIGINAL

PEDIATRIC PAGE

(Complete for all original application and all efficacy supplements)

NDA/BLA Number:	20610	Trade Name:	750MG CAP (BALSALAZIDE DISODIUM)			
Supplement Number:		Generic Name:	BALSALAZIDE DISODIUM			
Supplement Type:		Dosage Form:	Capsule; Oral			
Regulatory Action:	<u>AP</u>	Proposed Indication:	Treatment of mildly to moderately active ulcerative colitis.			
ARE THERE PEDIATRIC STUDIES IN THIS SUBMISSION? NO, No data was submitted for this indication, however, plans or ongoing studies exist for pediatric patients What are the INTENDED Pediatric Age Groups for this submission? NeoNates (0-30 Days) X Children (25 months-12 Years) Infants (1-24 Months) X Adolescents (13-16 Years)						
			· · · · · · · · · · · · · · · · · · ·			
Label Adequacy		equate for ALL pedia	atric age groups			
Formulation Status Studies Needed	-	DIES needed Applic	cant in NEGOTIATIONS with FDA			
Study Status			ssion. Comment attached			
Are there any Pediatric Phase 4 Commitments in the Action Letter for the Original Submission? YES						
COMMENTS: 3-20-2000: In 6-15-1998 letter, the Agency requested a Phase 4 commitment for all age groups. Negotiations continue over phase 4 commitments. 6/14/00: The applicant has requested a partial pediatric waiver for the youngest age groups. Review is pending. 7/6/00: The applicant's phase 4 commitments have been reviewed and found acceptable. Review of the waiver is still pending. There have been no discussions with the applicant re: development of age appropriate formulations.						
This Page was completed based on information from a PROJECT MANAGER/CONSUMER SAFETY OFFICER, MELODI MCNEIL S						
Signature			Date /			
			•			

PEDIATRIC PAGE

(Complete for all original application and all efficacy supplements)

NDA/BLA			
Number:	20610	Trade Name:	OISODIUM)750MG CAP
Supplement Number:		Generic Name:	BALSALAZIDE DISODIUM
Supplement Type:		Dosage Form:	Capsule; Oral
Regulatory Action:	<u>AE</u>	Proposed Indication:	Treatment of mildly to moderately active ulcerative colitis.
		•	147
NO, No data was exist for pediatri	s submitte c patients	ed for this indication	THIS SUBMISSION? on, however, plans or ongoing studies
		C	Groups for this submission?
		• • • • • • • • • • • • • • • • • • • •	Children (25 months-12 Years) Adolescents (13-16 Years)
·	mans (1	211110111110) 11	
Label Adequac Formulation Status	y <u>In</u> -	adequate for ALL	pediatric age groups
Studies Needed		TUDIES needed. A DA	Applicant in NEGOTIATIONS with
Study Status	-		
		e 4 Commitments in	the Action Letter for the Original
	2 .		
Submission? <u>YES</u> COMMENTS:	1998 letter,		d a Phase 4 commitment for all age groups.
Submission? YES COMMENTS: 3-20-2000: In 6-15- Negotiations continu	1998 letter, ue over pha	se 4 commitments. ed on information fr	om a PROJECT MANAGER/CONSUMER
Submission? YES COMMENTS: 3-20-2000: In 6-15- Negotiations continu This Page was com	1998 letter, ue over pha	se 4 commitments. ed on information fr KACUBA	om a PROJECT MANAGER/CONSUMER
Submission? YES COMMENTS: 3-20-2000: In 6-15- Negotiations continu This Page was com	1998 letter, ue over pha	se 4 commitments. ed on information fr	om a PROJECT MANAGER/CONSUMER

PEDIATRIC PAGE

(Complete for all original applications and all efficacy supplements)

The state of the s
'IDAPLA/PMA # 20 - 610 Supplement # Circle one: SE1 SE2 SE3 SE4 SE5 SE6
HFD-180 Trade and generic names/dosage form:
Applicant Salix Therapeutic Class Inflammatory bowel disease
Indication(s) previously approved
Proposed indication in this application Treatment & mildly to moderately active uc
FOR SUPPLEMENTS, ANSWER THE FOLLOWING QUESTIONS IN RELATION TO THE PROPOSED INDICATION.
IS THE DRUG NEEDED IN ANY PEDIATRIC AGE GROUPS? Yes (Continue with questions) No (Sign and return the form) WHAT PEDIATRIC AGE GROUPS IS THE DRUG NEEDED? (Check all that apply) Neonates (Birth-1month) Infants (1month-2yrs) Children (2-12yrs) Adolecents (12-16yrs)
Transfer forms (mount & mount fundament for 1511st Transfer 1511st
1. PEDIATRIC LABELING IS ADEQUATE FOR ALL PEDIATRIC AGE GROUPS. Appropriate information has been submitted in this or previous applications and has been adequately summarized in the labeling to permit satisfactory labeling for all pediatric age groups. Further information is not required.
2. PEDIATRIC LABELING IS ADEQUATE FOR <u>CERTAIN</u> AGE GROUPS. Appropriate information has been submitted in this or previous applications and has been adequately summarized in the labeling to permit satisfactory labeling for certain pediatric age groups (e.g., infants, children, and adolescents but not neonates). Further information is not required.
3. PEDIATRIC STUDIES ARE NEEDED. There is potential for use in children, and further information is required to permit adequate labeling for this usea. A new dosing formulation is needed, and applicant has agreed to provide the appropriate formulationb. A new dosing formulation is needed, however the sponsor is either not willing to provide it or is in negotiations with FDA.
c. The applicant has committed to doing such studies as will be required (1) Studies are ongoing,
(2) Protocols were submitted and approved.
(3) Protocols were submitted and are under review (4) If no protocol has been submitted, attach memo describing status of discussions.
d. If the sponsor is not willing to do pediatric studies, attach copies of FDA's written request that such studies be done and of the sponsor's written response to that request.
4. PEDIATRIC STUDIES ARE NOT NEEDED. The drug/biologic product has little potential for use in pediatric patients. Attach memo explaining why pediatric studies are not needed.
5. PEDIATRIC LABELING MAY NOT BE ADEQUATE a. Pediatric studies are needed.
b. Pediatric studies may not be needed but a pediatric supplement is needed.
✓6. If none of the above apply, attach an explanation, as necessary. (See Officerld felecon)
ARE THERE ANY PEDIATRIC PHASE IV COMMITMENTS IN THE ACTION LETTER? YesNo ATTACH AN EXPLANATION FOR ANY OF THE FOREGOING ITEMS, AS NECESSARY.
Signature of Preparer and Title Manager 5/02/98 Date
CC: Orig NDAPLAPMA # 20-610 HF.O-180/Div File
NDA/PLA Action Peckage HFD-006/ KRoberts (revised 9/15/97)

MEMORANDUM OF TELECON

DATE: May 20, 1998

APPLICATION NUMBER: NDA 20-610; Colazide (balsalazide disodium) Capsules

BETWEEN:

Name: Ms. Mary Ketchum, Regulatory Affairs

Phone: (650)849-5908

Representing: Salix Pharmaceuticals, Inc.

AND

Name: Melodi McNeil, Project Manager

Division of Gastrointestinal and Coagulation Drug Products, HFD-180

SUBJECT: Pediatric Development Plans

BACKGROUND: This application was submitted June 23, 1997 by Salix Pharmaceuticals, Inc. to market Colazide 750 mg Capsules, at a dose of 2.25 gm tid, for the treatment of mildly to moderately active ulcerative colitis.

TODAY'S PHONE CALL: I called the firm to inquire about their pediatric development plans. In response to my question, Ms. Ketchum said that the firm does not have any plans to develop Colazide for use in the pediatric population at this time. She indicated, however, that the firm would welcome Agency advice on this subject.

Melodi McNeil

Regulatory Health Project Manager

cc: Original NDA 20-610 HFD-180/Div. File HFD-180/MMcNeil

TELECON